

Title (en)
COIL ANTENNA AND NON-CONTACT INFORMATION MEDIUM

Title (de)
SPULENANTENNE UND KONTAKTLOSES INFORMATIONSMEDIUM

Title (fr)
ANTENNE BOBINE ET SUPPORT D'INFORMATIONS SANS CONTACT

Publication
EP 2221920 A1 20100825 (EN)

Application
EP 08860319 A 20081118

Priority

- JP 2008070935 W 20081118
- JP 2007321267 A 20071212

Abstract (en)
An object is to provide a coil antenna that is adaptable to a thin figure, and that appropriately makes the ratio of self-inductance to mutual inductance further large, so as to achieve a comparatively small mutual inductance that results in small mutual interaction even when overlapped. Without using a component such as a chip coil, a winding pattern (14) is formed with a wire (16) with which a main wiring pattern (12) is formed. This enables to deal with the flexibility by realizing a thin product using a coil antenna (10). Further, the wiring pattern is designed such that the winding pattern (14) is provided and distributed to the main wiring pattern (12) forming a loop, and is formed with the wire (16) so as to have a wound shape small enough compared with the main wiring pattern (12). In this way, the ratio of the self-inductance to the mutual inductance is appropriately made further large, so that the mutual inductance is made comparatively small.

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